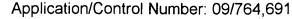


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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/764,691	01/18/2001	David W. Bell	2047-179	6901
31835	7590 09/02/2003	·		
RUSSELL E. FOWLER, II ICE MILLER ONE AMERICAN SQUARE, BOX 82001			EXAMINER	
			RAEVIS, ROBERT R	
INDIANAPOI	LIS, IN 46282-0002		ART UNIT PAPER NUMBER	
			2856	
			DATE MAILED: 09/02/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·		IM			
	Application No	Applicant(s)			
	09/764,691	BELL, DAVID W.			
Office Action Summary	Examiner	Art Unit			
	Robert R. Raevis	2856			
Th MAILING DATE of this communication a Period for Reply	ppears on the cov r sheet w	vith the correspondenc addr ss			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rim of the period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by stated the period for reply will, by stated the period for reply will, by stated the period for reply will. - Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a seply within the statutory minimum of the dwill apply and will expire SIX (6) MC ute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on O	4 August 2003 .				
2a)⊠ This action is FINAL . 2b)□	This action is non-final.				
Since this application is in condition for allo closed in accordance with the practice undo Disposition of Claims					
4) \boxtimes Claim(s) <u>1-18</u> is/are pending in the applicati	on.				
4a) Of the above claim(s) is/are withd	rawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-10 and 13-18</u> is/are rejected.					
7)⊠ Claim(s) <u>11 and 12</u> is/are objected to.					
8) Claim(s) are subject to restriction and	l/or election requirement.				
Application Papers					
9) The specification is objected to by the Exami	ner.				
10)⊠ The drawing(s) filed on <u>04 August 2003</u> is/are	e: a)⊠ accepted or b)⊡ obje	cted to by the Examiner.			
Applicant may not request that any objection to	-	, <i>,</i>			
11) The proposed drawing correction filed on	•	disapproved by the Examiner.			
If approved, corrected drawings are required in					
12) The oath or declaration is objected to by the I	Examiner.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
Certified copies of the priority docume	nts have been received in .	Application No			
 3. Copies of the certified copies of the praphication from the International E * See the attached detailed Office action for a limit 	Bureau (PCT Rule 17.2(a))	-			
14) Acknowledgment is made of a claim for dome	stic priority under 35 U.S.C	. § 119(e) (to a provisional application)).		
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for dome	• •				
Attachment(s)	· •				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice o	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)			



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DETAILED ACTION

Claims 1-6 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Long.

Long teaches a mandrel for engagement with the interior wall of a pipette tip, including (Figures 3, 5): hollow structure 124; lead-in portion 176 on a distal end; first cylindrical portion (lower part of element 158) having a band 166 for contacting the interior wall of the tip to form a seal; and a second cylindrical portion (upper part of element 158).

As to claim 1; element 158 has portions.

As to claim 2; note the tapering of elements 176, 178 and 168.

As to 3; Long teaches a first cylindrical portion (lower part of element 72) that includes a first raised band 178, lead in portion 180, and second cylindrical portion (upper part of 72 and lower part of 158) that supports a second raised band 166.

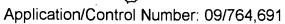
As to claim 3; elements 178 and 166 appear to be bands, as at least portions of each extend beyond the cylindrical portions of the mandrel.

As to clam 4; note reference to "seals" (col. 7, line 48).

As to claims 5 and 6; note the tapered portion 168.

Claims 7, 8, 13, 16 and 18 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Franke et al.





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Franke et al teach (Figure 3) an assembly, including: tip having a conical head and cylindrical wall; hollow mandrel including a lead in (lowermost) portion, cylindrical portion with a raised band 34.

As to claims 7, 16 and 18; the bead 34 appears to be a band.

As to claim 8; the tip has an internal diameter along its entire length.

As to claim 13; the mandrel includes cylindrical portions both adjacent the bead 34 and adjacent the flange 32.

Claims 7-10, 13-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Williams in view of Long.

Williams teaches (Figure 7) a pipette assembly including both a tip 221 with cylindrical wall and mandrel 17; but positions the seal(s) (band(s)) on the tip and not on the mandrel.

As to claims 7, 8, 13-18; it would have been obvious to utilize Long's multi-band mounted mandrel in place of William's band mounted tip because Long teaches that mandrel's many readily carry bands to provide for sealing of a tip to the assembly.

As to claims 9, 10; note the stop 275 of Williams.

As to Applicant's REMARKS, consider the following:





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As to p. 7 line 1-4; please look at Figures 3 and 5 of Long. Band 166 is a protuberance which "extends from the outer surface of the holder sidewall 158" (italics and underlining added, col. 7, line 30-31), and the protuberance 166 is a "snap-lock" (col. 7, line 13). Thus, the portion 158 of the stem 72 below (or under) the protuberance corresponds to the "first cylindrical portion", and the portion of the stem 72 immediately above the protuberance corresponds to the claimed "second cylindrical portion". Each of the two cylinder portions has its own diameter.

As to p. 7, last paragraph, and continuing on to bottom of p. 8, the reason for the 102/103 rejection rationale rests upon interpretation of the term "portion". While Long's element 158 certainly appears to be an aggregation of portions, the reference's teaching of an elongated element 158 suggests use of any elongated member that includes portions.

As to p. 12, lines 2-4; Franke's mandrel includes cylindrical portions both above and below the band 34. As in the paragraph immediately above, the reason for the 102/103 rejection rationale rests upon interpretation of the term "portion". While Franke's mandrel certainly appears to be an aggregation of portions, the reference's teaching of an elongated suggests use of any elongated member that includes portions.

As to p. 15, last two lines, and continuing on to p. 16, line 3; William's mandrel 17 expressly is illustrated (in Figure 7) as including first and second cylindrical portions.

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As to p.16, second paragraph; secondary reference Long teaches that bands may be employed on the mandrel (in lieu of the pipette tip) to provide for a secure tip/mandrel seal, suggestive of application of the bands on William's mandrel.

As to p. 17, lines 5-8; it is noted that Applicant recognizes that the claims are not limited such that the two portions have dissimilar exterior diameters.

Claims 11 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert R. Raevis whose telephone number is 703-305-4919. The examiner can normally be reached on Monday to Friday from 6:30am to 4:00pm.

RAEVI)
AU2856